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Cocrystallization of diastereomers in the series of 2(5H)-furanone bis-thioethers based on 1,2-phenylenedimethanethiol

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Abstract

© 2016, Springer Science+Business Media New York.Crystallization of diastereomeric mixtures of 2(5H)-furanone bis-thioethers, in the molecules of which two unsaturated γ-lactone rings are bound by 1,2-phenylenedimethanethiol bridge through their carbon atoms C(4), was studied. A rare case of cocrystallization of meso- and d,l-diastereomers for bis-thioethers with the small-size methoxy or hydroxy substituents at the asymmetric carbon atom was observed.

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Keywords

1,2-phenylenedimethanethiol, 2(5H)-furanones, bis-thioethers, cocrystals, crystallization, diastereomers, lactones, X-ray diffraction analysis